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Toll Free: 1-800-965 4968 Tel: 360 647 8438 Fax: 360 539 1850

Act 19416 & BOND STREET STREET STREET BOND WAY AUTHORITION AND STREET ST

Bonded Neodymium Rare Earth Magnets

Channel Assembly

Magnetic Pickup tools



NEODYMIUM MAGNETS

easily corrupted Hard and brittle Most powerful

Stock sizes of Neodymium Magnets

Neodymium magnets are dark gray alloy. They are composed of Neodymium, Iron and Boron. Density of Neodymium magnets is .27Lb/in3 (7.5g/cm3).

pressing w/magnetic orientation, sintering, then cutting, coating, inspecting and packing before shipment. Neodymium magnets are manufactured in a metallurgy process through alloying, crushing, powdering.

(BH)max, the Maximum Energy Product, of Neodymium magnets is highest of any kind of permanent Neodymium magnets offer the highest (BH)max and high Hci

Neodymium magnets have extremely resistance to demagnetization with Hci, Intrisic coercive force, over magnets today in the world. (BH)max at different grades of Neodymium magnets is 27 to 50 MGOe. 12,000 Oe.

Because of very high (BH)max and Hci, Neodymium magnets could be used as a reversible medium for arge amount of energy transformation in miniaturized application where a strong magnetic demagnetization field exists, such as computer hard drive.

Armstrong Magnetics <u>stocks N35 and N40 Neodymium</u> magnets in disk and rectangle shapes for customers' immediate needs and accept special orders for custom Neodymium magnets.

strong holding strength on metal surface and could be used as component for holding, separating, etc. Br of Neodymium magnets are much more than 11,000 Gauss. Therefore, Neodymium magnets have Neodymium magnets are most powerful of any kind of magnetic materials

http://www.armsmag.com/neodymium.htm

Neodymium magnets must be carefully handled to avoid personal injury and material damage due to its extremely magnetic strength and brittle property

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Neodymium magnets are sensitive to temperature change and even lose magnet properties at hig temperature

Neodymium magnets lose -0.09 ~ -0.13% of Brf°C and can work stably under 80°C for low Hci Neodymium magnets and 14

C for high Hci Neodymium magnets.

Neodymium magnets are corrupted in humid environment

Surface protection is strongly recommended, such as plating, varnishing and encapsulating

Neodymium magnets are hard and brittle

Neodymium magneta can be abrasively machined with coolant served to absorb heating and dust. Without coolant, rare earth magnets cor crack and chip by the heat produced during high speed cutting or grinding, and the sparks contain the easily oxidized grinding dust that col cause fire

Tolerance of Neodymium magnets

Unless otherwise specified, tolerance on dimension of magnetization is ±005°. Other dimensions are ±1.5% or ±.010°, whichever is greater.

MAGNETIC PROPERTY OF NEODYMIUM MAGNETS

	Max Working Temp.	(%/J%)	90	5	₹	7	Z	757	<u></u>
	(BH)max	(MGO)	35	;	3	L	ß	L	ዷ
	Hai (0e)	•	>12.000		>12.000		>17.000	000	20000 20000
	Hc (0e)	•	>10.900		>10.500		× 1.00		× 586
	Br (Gauss)		11 700 - 12 100		12 500 - 12 800		12500 - 11700		11,700 - 12,500
	Grade		35	3	Ş	?	¥5.	-	35ST
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